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AUTHOR: Wajda, Stanisław--Vayda, S.; Pruchnik, F.--Prukhnik, F.

ORG: Department of Inorganic Chemistry, Wrocław University, Wrocław
(Katedra chemii nieorganicznej uniwersytetu wrocławskiego)

TITLE: Isotopic exchange as a criterion of the structure of octahedral
 $[\text{Cr}(\text{NCS})_6]^{3-}$ Complexes. II. Isotopic exchange in the system $[\text{Mo}(\text{NCS})_6]^{3-}-\text{N}^{14}\text{CS}^-$

SOURCE: Nukleonika, v. 11, no. 7-8, 1966, 555-566

TOPIC TAGS: isotope, radioactive source, isotopic exchange, reaction
mechanism, molybdate

SUB CODE: 07,18

ABSTRACT: The exchange kinetics of radiocarbon in hexathiocyanatomolyb-
date (III) was examined. The exchange was found to proceed according
to the dissociation mechanism $\text{S}_{\text{N}}1$ after a certain induction period. On
the basis of these data the mechanism of isotopic exchange is given. The
magnitude of the activation energy (21.9 kcal/mole) suggests that the Mo-N
bonding is covalent but it is weaker than that in the chromium complex.
Orig. art. has: 9 figures and 7 tables. [Based on authors' Eng. Abst./
/NA/

Card 1/1

0930 2569

TAUBENFLIEGEL, W.; WAJDA, Z.; LEWINSKI, A.

Determination of the condition of vascularization of pedicle skin grafts (Gillies-Filatov) by the thermoelement. Acta chir. plast. (Praha) 7 no.3:236-240 '65.

1. The 3rd Surgical Clinic, Medical Academy, Gdansk (Poland)
(Director: Prof. Zdzislaw Kieturakis M.D.).

WAJDA, Zdzisław

Case of leiomyoma of the stomach. Polski przegl. chir. 28 no.9:
945-947 Sept 56.

1. Z III Kliniki Chirurgicznej A.M. w Gdansk Kierownik:
prof. dr. Z. Kieturakis. Gdansk, III Klinika Chirurgiczna A.M.
(STOMACH NEOPLASMS, case reports,
leiomyoma (Pol))
(LEIOMYOMA, case reports,
stomach (Pol))

WAJDA, 2.

STRZESZEWSKI, Jerzy; WAJDA, Zdzisław

Unusual complication following wearing truss. Polski prześl. chir.
29 no.7:721-722 July 57.

1. Z III. Kliniki Chirurgicznej A. M. w Gdansk. Kierownik: prof. Z.
Kieturakis.

(HERNIA, VENTRAL, therapy,
truss, causing perf. of abdom. wall & prolapse of
omentum (Pol))

(ABDOMINAL WALL, perforation,
caused by truss with prolapse of omentum (Pol))

(OMENTUM, diseases,
prolapse by truss, with abdom. wall perf. (Pol))

WERMUT, W.; SWICA, S.; WAJDA, Z.

Case of symptomatic hypertension cured by removal of hypoplastic kidney. Polski tygod. lek. 13 no.42:1635-1638 20 Oct 58,

1. (Z II Kliniki Chorob Wewnętrznych A. M. w Gdansk; kierownik: Prof. dr J. Penson i z III Kliniki Chirurgicznej A. M. w Gdansk; kierownik: prof. dr Z. Kieturakis) adres: Gdansk, Państw. Szpital Kliniczny II Kliniki Chorob Wewnętrznych.

(HYPERTENSION, case reports

renal, cure by removal of hypoplastic kidney(Pol))

(KIDNEYS, abnorm.

hypoplasia causing hypertension, cure by nephrectomy (Po))

TAUBENFLIGEL, Wiktor, WAJDA, Zdzislaw, SMIYK, Jerzy.

Experimental research on the suitability of free flaps from the peritoneum to supplement defects in the walls of the gastrointestinal system. Polski przegl.chir. 30 no.149-151 Mar '58

1. Z III Kliniki Chirurgicznej A.M.C. Kierownik: prof. dr Z. Kietruć-Gdańsk, ul. Służby 9, III Klinika Chirurgiczna A.M.

(GASTROINTESTINAL SYSTEM, surg.

free peritoneal flaps to supplement defects in walls of gastrointestinal system in animals (Pol))

(PERITONEUM, surg.

same (Pol))

ZWYKIELSKI, Grzegorz; WAJDA, Zdzisław

Tuberculosis of the spleen. Polski przezl. chir. 31 no.3:345-348 Mar 59.

1. Z III Kliniki Chirurgicznej A. M. Gdansk Kierownik: prof. dr Z.
Kieturakis. Adres autora; Gdansk-Wrzeszcz, ul. Wajdeloty 10.

(TUBERCULOSIS, case reports,

spleen (Pol))

(SPLEEN, dis.

tuberc. (Pol))

SWICA, Stanislaw; WAJDA, Zdzislaw

A case of spontaneous gastric dilatation. Pol. tyg. lek. 17 no.17:
644-645 23 Ap '62.

1. Z III Kliniki Chirurgicznej AM w Gdansk; kierownik: prof. dr
Z. Kieturakis.

(STOMACH dis)

WAJDA, Zdzislaw; LEWICKI, Kazimierz

Spontaneous bleeding into the peritoneal cavity from the cystic artery. Pol. przegl. chir. 34 no.1:59-60 '62.

1. Z III Kliniki Chirurgicznej AM w Gdansk Kierownik: prof. dr
Z Kieturakis. (GALLBLADDER dis) (HEMORRHAGE)

MIERZEJEWSKI, T.; MIRECKI, L.; PENSON, J.; SWICA, S.; WAJDA, Z.;
WROZOLKOWA, T.

Pheochromocytoma. Diagnostic value of aorto-arteriography and
therapeutic problems. Kardiol. pol. 6 no.3:155-159 '63.

1. Z II Kliniki Chorob Wewnetrznych Kierownik: prof. dr J.
Penson z Kliniki Radiologii i Radioterapii Kierownik: prof.
dr W. Grabowski z III Kliniki Chirurgicznej Kierownik: prof. dr
Z. Kieturakis z Zakladu Anatomii Patologicznej AM w Gdansk
Kierownik: prof. dr W. Czarnocki.
(PHEOCHROMOCYTOMA) (ANGIOGRAPHY)

WAJDA, Zdzislaw; GOLYNSKI, Slawomir; WASOWSKI, Janusz

Treatment of duodenal fistulae with a pancreatic inhibitor
"trasylol". Pol. przegl. chir. 36 no.11:1367-1369 N '64

1. Z III Kliniki Chirurgicznej Akademii Medycznej w Gdansk
(Kierownik: prof. dr. Z. Kieturakis).

P/014/62/041/012/003/005
D204/D307

AUTHOR: Wajda, Anna

TITLE:

Stable urea-formaldehyde solutions

PERIODICAL:

Przemysł Chemiczny, v. 41, no. 12, 1962, 688-689

TEXT:

The present paper is a review aimed at presenting the achievements attained in this field to Polish chemists, and motivated by the scarcity of more detailed publications dealing with this subject. Compositions, storage temperatures, temperatures at which the polymer is precipitated, stabilization and physical properties of urea-formaldehyde (u-f) solutions are summarized. 'Stable' solutions are defined as those in which the concentration is high, the stabilizing action being due to urea. The methods of preparation are briefly described under the general headings of: (a) reaction of solid urea with aqueous CH_2O , (b) absorption of gaseous CH_2O in hot, concentrated solutions of urea, and (c) preparing a hot concentrated CH_2O solution and mixing the latter with solid urea. The usual applications of u-f solutions are listed. Production of solid urea-formaldehyde solutions are listed. Production of solid urea-formaldehyde solutions are listed.

Card 1/2

Stable urea-formaldehyde solutions ;

P/014/62/041/012/003/005
D204/D307

tion and utilization of stable u-f solutions is recommended, in view of the considerable savings in transportation and storage costs, more efficient applications in the chemical industry and a saving of methanol (70-120 kg MeOH/ton of formalin) which is at present used to stabilize the solutions. Some Western-produced stable u-f solutions and concentrates are characterized. Research into the production and properties of stable u-f solutions has now been started at ZA Kędzierzyn. Abstracter's note: Zakłady Azotowe (Nitrogen Works) Kędzierzyn. There are 14 references: 3 Soviet-bloc and 11 non-Soviet-bloc.

ASSOCIATION: ZA Kędzierzyn

Card 2/2

Wajdeczko, A.

3. SURFACE DEFORMATION: FRONTIER WORKING OF A THICK OIL SEAM IN SERIES.
 USING HYDRAULIC STOPING: Romanovitz, E. and Wajdeczko, A. (Prace Główn.
 Inst. Gór. (Geol. and Inst. Min., Stalinska), Ser. A, 1955, Krynica. 17, 211.
 150p.). A seam 8 m thick and 450 m deep was worked in strips 20-30 m wide
 with 20 m of coal left between them. An important building on the surface was
 undamaged. (L).

WASDECZKO, A; MIELECKA, T.; IIMATCWICA, A.

Changes in some technological properties of coal under the influence of natural ventilation. p. 139

ARCHIWUM GORNICTWA. (Polaska Adademia Nauk. Komitet Gornictwa) Warszawa, Poland. Vol. 4, no. 2, 1959

Monthly list of East European Accession (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

TROJANOWSKI, Kazimierz, dr. inż.; WAJDECZKO, Augustyn, inż.; PYTLARZ,
Tadeusz, mgr. inż.

Development of ground deformation in time resulting from working
a shallow seam. Przegl gorn 20 no.11:547-552 N '64.

WAJDOWICZ, A.

Effect of ultra-violet rays on the erythropoietic activity
of the kidney. Pol. biol. (Krakow) 13 no.3:317-321 '65.

1. Institute of General and Experimental Pathology, Medical
Academy, Krakow.

WAJDOWICZ, J., mgr

The network of pharmacies in the Rzeszow Voivodeship is growing. Farmacja Pol 19 no.8:170 25 Ap '63.

WAJDOWICZ, J., mgr

Włodzimierz Gardziel's 50 years of professional activities.
Farmacja Pol 19 no.3:66-67 10 F '63.

*

WAJDOWICZ, Jerzy, mgr

50 years of professional activities of Tadeusz Kruczek. Parzaoja
Pol 18 no.24:603 30 D '62.

WAJDOWICZ, Z.

"Utilization of small streams for fish culture" p. 5 (GOSPODARKA RYBNIA, Vol. 5, No. 3, Mar. 1953 Warszawa, Poland)

SO: Monthly list of East European Accessions, I.C., Vol. 3, No. 4, April 1954

WAJDOWICZ, Z.

Management of fishing in the Beczalkowice water reservoir. p. 504.
GOSPODARKA WODNA, Warszawa. Vol. 15, no. 12, Dec. 1955.

SOURCE: East European Accessions List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956.

WAJDOWICZ, Z.

WAJDOWICZ, Z. Workers of the Institute of the Biology of Ponds of the Polish Academy of Sciences on a visit in Czechoslovakia. p. 8. Vol. 8, no. 12, Dec. 1956. GOSPODARKA RYBNIA. Warszawa, Poland.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4-- April 1957

WAJDOWICZ, Z.

WAJDOWICZ, Z. The Gorzalkowice water reservoir as the site for fish culture; stocking it with fry. p. 13. Principles of preparation of food mixtures for fish. p. 15.

Vol. 7, no. 7, July 1955
GOSPODARKA RYBNA
AGRICULTURE
Poland

So: East European Accession, Vol. 6, No. 5, May 1957

WAJDOWICZ, Zbigniew, mgr., eng.

The Goczalkowice reservoir as an object of fish culture. III. Further development of the fish stock. Acta hydrobiol 3 no.4:225-239 '61.

1. Stacja Hydrobiologiczna, Zaklad Biologii Wod, Polska Akademia Nauk, Goczalkowice, powiat Pszczyna.

(Poland—Fish culture)

WAJDOWICZ "Bigniew, dr.

Development of ichthyofauna in dam reservoirs with small variations in the water level. *Acta hydrobiol.* 6 no.1461-79 '64

1. Zakład Biologii Wod, Instytut Akademii Nauk, Kraków.

WAJDZIK, C.

WAJDZIK, C. Usefulness of fissured walls in buildings in the light of more experiments. (To be contd.) p. 17. Vol. 8, no. 10, Oct. 1956. BUDOWNICTWO WIFJSKIE. Warszawa, Poland.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4—April 1957

WAJDZIK, C.

WAJDZIK, C. Humidity is the chief defect of fissured walls. II(to be contd.) p. 13

Vol 8, no. 11, Nov. 1956
BUDOWNICTWO WIEJSKIE
AGRICULTURE
Warszawa, Poland

So: East European Accession vol 6, no. 3, March 1957

WAJDZIK, C.

WAJDZIK, C. Usefulness of fissured walls in buildings in the light of more recent experiments. III.(Conclusion) p. 17. Vol. 8, no. 12, Dec. 1956. BUDOWNICTWO WIEJSKIE. Warszawa, Poland.

SOURCE: East European Accessions List (FEAL) Vol. 6, No. 4--April 1957

WAJDZIK, C.

The amount of surface condensation in farm buildings. p. 4.

BUDOWNICTWO WIEJSKIE. (Ministerstwo Rolnictwa i Ministerstwo Panstwowych
Gospodarstw Rolnych) Warszawa, Poland. Vol. 11, no. 10, Oct. 1959

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

WAJNGOT. F.

"Criticism Improves our Publication," P. 227. (PRZEMYSŁ CHEMICZNY, Vol. 10
No. 5, May 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

WAJINGOT, F.

"Conference of Readers and Contributors to Chemical Periodicals," P. 194.
(PRZEGLAD TECHNICZNY, Vol. 75, No. 5, May 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 1, Jan. 1955 Uncl.

WAINRYB, M.

31

Polyamide resins. Moscow Wainryb, Przemysl Chem.
27, 601 (1980). The chemistry, general character-
istics, and properties of the polyamide resins are reviewed.
Frank Connel

ADDITIONAL LITERATURE CLASSIFICATION

WASNA YB
 Synthesis of *o*-chloro-*p*-terephthalate. In: *Travaux*
 de la Commission de la Recherche Chimique, 1954, 1, 1-2.
 (L'Ann. Chim. 1954, 1, 1-2). Polons, L. A. No.
 1, 81-82 (1954) (Baglioni summary). Esterifi-
 cation of *p*-ClH₂(COCl)₂ at atm. pressure gave yields up
 to 90% within 2.75 hr. During esterification the ratio
 of *p*-ClH₂ to terephthalic acid (II) should be not less than 1
 by wt. When MeClH₂ 1, and H₂SO₄ (86% 88%) in a r-
 ation of 2:180:1 by wt. was agitated at 85° for 535 min. the y-
 of *p*-ClH₂(CO₂Me)₂ was 90.5%; when the ratio was 1:1
 and the temp. 89.1° the yields were, after 1:6 min. 98.
 and after an addn. 30 min., 99.1%. P. J. Hend

Wajnryb, Marek

7
8

Chem
Terephthalic acid from p-xylylene chloride. Josef A. Liska, Vitez Liska and Marek Wajnryb. (Inst. Technol., Warsaw, Poland). Zeszyty Nauk. Politechn. Warsz. 10, 6, 1956, No. 3, 31-43 (1956) (English summary).—The oxidation of p-C₆H₄(CH₂Cl)₂ (I) to p-C₆H₄(CO₂H)₂ (II) by HNO₃ of various concns. was studied. With 19.1, 28.8, and 35.0% HNO₃, resp., were obtained mixts. of I and II (and by-products) contg. 41.7, 59.7, and 59.7% II, and with actual yields of 20.6, 40.2, and 42.3% II, resp. With 71.7% HNO₃, the yields were better. Presumably this is not an effect of the concn. alone; the b.p. of the concd. HNO₃ also makes it possible to run the reaction at 117-21°. Samples were taken every 20 min. in reactions which lasted 1-3 hrs. It was possible to obtain a mixt. of I + II contg. 60% II, and by repeated oxidation this value could be pushed up to about 80%. This process can be further improved by first hydrolyzing the I with a H₂O-I ratio of 3:1, then oxidizing the hydrolysis products in 2 steps with 43.7 and 84% HNO₃, resp., and HgCl₂ as catalyst. Thus are obtained final products contg. over 90% II, with an actual yield of about 60% II. These products can be esterified without any trouble according to Ullman and Schläpfer [Ber. 37, 2003 (1904)]. 27 references. Werner Jacobson

PM

WAJNRYB, M.; MOLINSKI, S.

"Synthetic products in medicine and biology."

p. 35 (Chemik) Vol. 10, no. 2, Feb. 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 4,
April 1958

Wajnyb M.

Poland /Chemical Technology. Chemical Products
and Their Application

I-25

Synthetic polymers. Plastics.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32459

Author : Wajnyb M.

Title : Polyethylene

Orig Pub: Przem. chem., 1956, 12, No 4, 195-199

Abstract: Description of the methods of production of
polyethylene by polymerization of ethylene at
high and low pressure, of the physico-mechanical
properties and dielectric characteristics, and
of the scope of utilization of polyethylene.
Bibliography 6 references.

Card 1/1

S/081/62/000/005/097/112
B166/B101

AUTHORS: Brzeziński, Jan, Wajnryb, Marek

TITLE: Fractional precipitation of polycarbonates

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 606, abstract
5P14 (Tworzywa. Guma. Lakiery, v. 5, no. 11-12, 1960,
326-334, 383)

TEXT: A short description is given of the theory and principles of fractional precipitation of polymers. A technique and apparatus have been developed for a rapid method of fractional precipitation of polycarbonates under the following conditions: quantity of polymer 1 g, fractionating temperature 20°C, solvent - chloroform, precipitator - petroleum ether with a boiling point of 30-50°C, initial polymer concentration 0.5 % by volume, fractionating time 6-7 hrs. The molecular weight was determined by viscometry in chloroform at 25°C. On the basis of the experimental data the relationship between the molecular weight and the viscosity of

Card 1/2

Fractional precipitation of ...

S/081/62/000/005/097/112
B166/B101

solutions of polycarbonates in chloroform at 25°C was defined. The article gives the molecular composition of commercial grades of polycarbonates intended for the production of film and for treatment by the injection molding process. [Abstracter's note: Complete translation.]

Card 2/2

S/081/62/000/003/087/090
B159/B101

AUTHOR: Wajnryb, Marek

TITLE: The stereoregular structure of polymers

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1962, 635, abstract
3R2 (Tworzywa wielkocząsteczkowe, v. 6, no. 5, 1961, 144-149)

TEXT: The features of the atactic, isotactic and syndiotactic structures of high polymers, the specific properties of stereoconstant polymers, and crystallinity are examined. The influence of the symmetry of molecules and of lateral substitutions on the degree of crystallinity is discussed in part. 9 references. [Abstracter's note: Complete translation.]

Card 1/1

WAJNRYB, Marek; RASZCZUK, Alina

Methods of evaluation of the thixotropic properties of polyester resins.
Polimery tworzywa wielocząst 7 no.2:59-64 F '62

1. Instytut Tworzyw Sztucznych, Warszawa.

ZIELINSKA, Daniela; ROSZKOWSKI, Zbigniew; WAJNRYB, Marek

Alkyl benzene as a diluent for polyvinyl chloride blends.
Polimery tworzyw 7 no.7/8:249-251 JI-Ag '62.

1. Instytut Tworzyw Sztucznych, Warszawa.

KROZER, Szymon; WAJNRYB, Marek

Studies on the thermomechanical properties of low- and high-
pressure polyethylene mixtures. Polimery tworzyw wielk 7 no.10:
367-372 0 '62.

1. Instytut Tworzyw Sztucznych, Warszawa.

MAJEWSKA, F.; WAJNRYB, M.

Analyzing methods of commercial types of polyamides. Polimery
tworz wielk 8 no.2:63-65 F '63.

SOBICZEWSKI, Zbigniew; WAJNRYB, Marek

Density measurements of polymers in gradient tubes. Polimery
tworz wielk 8 no.2:69-72 F '63.

1. Instytut Tworzyw Sztucznych, Warszawa.

P/014/62/041/012/002/005
D204/D307

AUTHOR: Wajnryb, Marek
TITLE: The stabilization of polyvinyl chloride. Part I
PERIODICAL: Przemysł Chemiczny, v. 41, no. 12, 1962, 681-684

TEXT: The present article is a review dealing with the causes of the sensitivity of PVC to the combined action of light and air, and to the effects of elevated temperature, even in the absence of air and light. The modern views concerning the structure of PVC and the mechanism of thermal decomposition are given. The lack of stability is due to the existence of weak spots on the macro-structure, such as double bonds, points of branching, and to remnants of initiator. In the absence of air the decomposition proceeds by an ionic mechanism and is made possible by the initial loss of HCl and the resultant formation of conjugated double bonds, which then permit cross-linking. In the presence of air the decomposition is accelerated and both cross-linking and oxidative degradation take place, by a free-radical process. The decomposition may also be

Card 1/2

The stabilization of polyvinyl ...

P/014/62/041/012/002/005
D204/D307

initiated by irradiation with light. The purpose of stabilizers is described in general terms. There are 3 figures and 12 non-Soviet-bloc references.

ASSOCIATION: Instytut Tworzyw Sztucznych w Warszawie (Institute Of Synthetic Resins, Warsaw)

Card 2/2

WAJNRYB, M.

Conference of the Technical Committee of the International Organization for Standardization, 1961. Przem chem 41 no.12:732-733 D '62.

11

12

P/014/63/042/001/002/004
D204/D307

AUTHOR: Wajnryb, Marek

TITLE: Stabilization of polyvinyl chloride. II. Stabilizers

PERIODICAL: Przemysł Chemiczny, v. 42, no. 1, 1963, 16-19

TEXT: The present article is a review based wholly on Western work over the period 1939-1960. Substances preventing the undesirable side-effects of the thermal decomposition of PVC are discussed under the headings of (a) inorganic and organic salts of lead, (b) organic salts of Cd, Ba, Ca, and Zn, and (c) organic compounds of tin. Attention is focussed on the probable mechanisms, the relative effectiveness, and on the specific properties of the polymer which are stabilized with a given compound. A brief description is also given of organic stabilizers; chiefly anti-oxidants, which are added to the polymer in conjunction with other stabilizing substances. The problem of light-stabilization is indicated. It is concluded that every variety of PVC requires a different mixture of stabilizers.

Card 1/2

Stabilization of polyvinyl chloride . . . P/014/63/042/001/002/004
D204/D367

and the importance of (1) thorough distribution of stabilizer throughout the mass of PVC, and (2) prevention of adhesion of PVC to hot surfaces by adding lubricants, is underlined. Thermal decomposition of the polymer is hindered only by Zn stabilizers, whilst the other substances discussed preserve only the color of the polymer. It is considered that stabilization by the addition of free radical acceptors is not yet fully explored. There are 9 figures and 12 non-Soviet-bloc references. ✓

ASSOCIATION: Instytut Tworzyw Sztucznych w Warszawie (Institute of Plastics, Warsaw)

Card 2/2

WAJNTRAUB, J.

Method of defining the chemical damage to wool during the process of scouring.
Biuletyn Wlok. p. 12. (PRZEMYSŁ WŁOKIENNICZY, Lodz, Vol. 7, no. 7/8, July/Aug. 1953.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955,
Uncl.

WATNTRAB J.
POL.

037.1015.01749.00

2772

Jakobson J. Wajtrab J. Non-Cream Dishes for Synthetic Cellulose Fibre Fabrics.

"Aproletury przetwórkę celulozową dla tkanin z syntetycznych włókien celulozowych". Przemysł Włókienniczy. No. 9-10, 1953, pp. 229-231, 3 tabs.

The authors have compiled a formula for urea-formaldehyde condensate intended for use as a non-cream impregnating medium for synthetic cellulose fibre fabrics. The impregnating bath used for this purpose contains, in addition to the condensate, a softening medium — Potefobol 1W — and crystalline sodium acetate. Ammonium phosphate and formic acid are used as catalyst. Saturation of the fabric is carried out in padding machines at a temperature of the impregnating bath of 35°C. The fabric is, after squeezing, dried in a temperature of rough-ly 70°C. Further treatment consists in raising the temperature of the fabric, in a superheating apparatus, for from 3 1/2 to 5 minutes, to approx. 140°C. Any non-condensed resins and acid catalyst still remaining in the fabric is removed by washing with soap and soda.

Na₂SO₄ 100%

Shortened section after pre-treatment with chlorine 1.8%

tensile strength 100% whiteness and opacity absorbents

deity than enymatic ~~specificities~~. ^{highly} degree of whiteness, and fleece -

WAJNTRAUB, J.

Elaboration of the condition of bleaching the fabric made of mixtures
of cotton-cut viscose fiber. Biuletyn Wlok.

p. 21
Vol. 9, no. 6, Aug. 1955
PRZEMYSŁ WŁOKIENNICZY
Lodz

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 3
March 1956

WAJS, K.

WAJS, K. Determination of essential parameters of drive of hoisting machines.
p. 440

Vol. 31, No. 7, July 1955
PRZEGLĄD ELEKTROTECHNICZNY
TECHNOLOGY
Poland

So: East European Accession, Vol. 5, No. 5, May 1956

WASS, K.

Regulators in automated systems. p.106
WIALOMOSCI ELEKTROTECHNICZNE. (Stowarzyszenie Elektryków Polskich, Centralny
Zarząd Energetyki, Centralny Zarząd Przemysłu Maszyn Elektrycznych, Centralny
Zarząd Przemysłu Kablemowego) Warszawa
Vol. 6, No. 5, May 1956

So. East European Accessions List

Vol. 5, No. 9

September 1956

WAJS, K.

Reversible clutching in automatized systems. p. 204.

(WIADOMOSCI ELEKTROTECHNICZNE. Vol. 16, no. 9, Sept. 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.
Uncl.

WAJS, K.

"Evaluation of the quality of operation of automatized systems."

p. 223 (Wiadomosci Elektrotechniczne) Vol. 17, no. 9, Sept. 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

WAJS, K.

Direct and indirect regulators.

P. 56 (WIADOMOSCI ELEKTROTECHNICZNE) (Warszawa, Poland) Vol. 17, no. 3, Mar. 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5. 1958

WAJS, K.

Something new from the field of drives in hoisting machinery. p. 57

WIADOMOSCI ELEKTROTECHNICZNE. (Stowarzyszenie Elektrykow Polskich, Centralny Zarzad Energetyki, Centralny Zarzad Przemyslu Maszyn Elektrycznych i Centralny Zarzad Przemyslu Kablowego) Warszawa, Poland. Vol.19, no.3, Mar. 1959

Monthly List of East European Accessions Index, (EEAI) LC, Vol.8, no.6
June 1959
Uncl.

WAJS, Karol, mgr inz.

Drive of eccentric presses. Wiad elektrotechn 19 no.7:218-220 J1
159.

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21.1000

AUTHOR: Wajs, Karol, Master of Engineering

TITLE: Control and Regulation of Research Reactors /9

PERIODICAL: Wiadomości Elektrotechniczne, 1960, No 7, pp 189 - 192

TEXT: The author presents an outline description of control and regulation in thermal neutron research reactors as distinguished from power reactors. The article is limited to a descriptive presentation, while physics and safety are omitted. (Reference is made to an article in Wiadomości Elektrotechniczne, 1960, No 3, pp 66 - 68, for the basic description of thermal reactors.) The first chapter of the article deals with the principles of reactor control; the definitions of neutron density and multiplication constant are explained, as well as the four factors which interfere with the operational stability of a reactor: a) fuel burn-up, b) introduction and withdrawal of test instruments, test samples etc., c) temperature variations and d) reactor poisoning. The formation and effect of Xe^{135} as a reactor poison is briefly explained. Further on, the methods of influencing reactivity are mentioned: control of neutron escape by means of a reflector and neutron absorption by means of a control rod.

Card 1/2

Control and Regulation of Research Reactors

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The second chapter deals with the reactor control system. Pointing out that on principle neutron density is controlled, the author mentions the two means of measuring neutron density, i.e. counters and ionization chambers, and he lists the difficulties encountered in such measurement: a) wide range required, b) external disturbances, c) irregular distribution of neutron density. Further on, the amplification, conversion and comparator stages are mentioned and briefly explained. At the close of the article, the author lists the functions of control rods, which are emergency scram, control of the rate of reaction and compensation of disturbances such as fuel burn-up, poisoning etc. There is 1 Figure.

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Card 2/2

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26.2222

AUTHOR: Wajs, Karol

TITLE: The error estimation of linearized nuclear reactor equations

PERIODICAL: Nukleonika, v. 5, no. 11, 1960, 737 - 742

TEXT: In solving the problem of kinetics of a nuclear reactor by direct analytical methods, one usually substitutes for the general system of differential equations, a system of differential equations with constant coefficients. Errors of this approximation were estimated by the author. A system of kinetic equations was assumed in a form given by M.A. Schultz (Ref. 1: Control of Nuclear Reactors and Power Plants. Chap. 3: Reactor Kinetics, New York 1955, Mc Graw Hill Book Comp.) and this was linearized by inserting for the neutron density function $n(t)$ its initial value $n(0)$. As a result of this operation the coefficients become constant, and the problem can be solved in terms of $n(t)$ for a given initial reacti-

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The error estimation of ...

vity. In order to estimate the deviation of the linearized system from the original one, the general shape of the equations was investigated in terms of the theory of differential inequations by applying a theorem given by T. Ważewski (Ref. 2: *Système des équations et des inégalités différentielles ordinaires aux deuxième membres monotones et leurs applications. Annales de la Soc. Pol. de Mth.* t. 23, 1950, pp 112-166). The errors were considered separately for two cases: positive initial reactivity and negative initial reactivity [Abstractor's note: $k(t) < 0$ appears in text erroneously as " $k(t) > 0$ "], and the final result for both cases is presented by a single expression:

$$|n_1(t) - n_2(t)| < \frac{n_{\text{extr}} - n(0)}{\tau} \int_0^t \delta k(t) dt \quad (4) \quad X$$

where $n_1(t)$ and $n_2(t)$ are neutron densities given respectively by the exact system of equations and the approximate one, and n_{extr}

Card 2/4

27318

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The error estimation of ...

is the extremum value of the function $n(t)$ measured against the initial value $n(0)$. For practical calculations a specified time-dependence of the reactivity has to be assumed; e.g. if the reactivity jumps to a value $\delta k(t) = k_0$, the expression for the error reduces to:

$$|n_1(t) - n_2(t)| < \frac{k_0 t}{\tau} [n_{\text{extr}} - n(0)]$$

the constant of integration being eliminated by the initial condition: $n_1(0) = n_2(0) = n(0)$. It is stated that the evaluated error is safely larger than an exact estimate due to the fact that the delayed neutrons were neglected, and the effect of including the delayed neutrons is discussed. In conclusion, results of a simplified numerical calculation are presented for the extreme case of a very small reactivity. There is 1 figure and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: M.A. Schultz, Control of nuclear reactors. Card 3/4

27318

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D249/D303

The error estimation of ...

clear reactors and power plants, McGraw Hill, New York, 1955,
Chap. 3.

ASSOCIATION: Instytut elektrotechniki, Warszawa (Electro-Technical
Institute, Warsaw)

SUBMITTED: September, 1960

Card 4/4

WAJS, Karol, mgr., inz.

Increase of the probability of a steady state by regulation.
Pomiary '7 no.10:420-422 0 '61.

(Automatic control)

WAJS, Karol, Mgr. Inz.

Rotor emergency breaking in an electric motor. Inst Elektrotech
9 no.26:69-80 '61.

1. Zaklad Konstrukcji Urzadzen i Maszyn Elektrycznych, Warszawa.

WAJS, K.

"Introduction to matrices applied in electronics" by A. Weiss.
Reviewed by Wajs, K. Przegl elektrotechn 37 no.11:469-470 '61.

WAJS, Karol, mgr inż.

Integral criteria of the operational quality of a feedback control system as topological problem. Inst elektrotech prace 10 no.29: 89-96 '62.

1. Ośrodek Dokumentacji i Informacji Naukowej, Warszawa.

P/530/62/010/030/001/001
D201/D308

AUTHOR: Wajs, Karol, Master of Engineering
TITLE: Phase plane linearization of control elements
SOURCE: Warsaw, Instytut Elektrotechniki, Prace, v.10, no. 30, 1962, 47-57

TEXT: The author shows that when the non-linear component of a feedback control system is described by a differential equation of the second order, it may be replaced by a linear first or second order element, the transfer function of which is determined from the analysis of phase trajectory. With small deviations from the state of equilibrium the phase trajectories can be approximated by piecewise exponentials which may be called a variation of the Euler method of approximate solution of differential equations. When the changes of the independent variable are considerable, the harmonic approximation may be used; the latter may be considered as a certain interpretation of the Fourier series the constant term of which determines the

Card 1/2

Phase plane linearization ...

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D201/D308

locus shift along the abscissa and the harmonic terms differ only in their origin. In practice, the harmonic approach is restricted to two cases only: when the equilibrium is on the abscissa itself and when instants of time have to be calculated for regions near to the abscissa. There are 6 figures. ✓

ASSOCIATION: Zakład Dokumentacji i Informacji Naukowej (Department of Scientific Documentation and Information)

SUBMITTED: February 22, 1962

Card 2/2

WAJS, Karol, mgr inz.

Higher order control system components in the phase plane.
Inst elektrotech prace 10 no.31:45-54 '62.

1. Ośrodek Dokumentacji i Informacji, Instytut Elektrotechniki,
Warszawa.

WAJS, K.

"Practical mathematics for engineers" by R. Zurmuhl. Reviewed by
K. Wajs. Przegl elektrotechn 38 no.2:72 '62.

WAJS, K.

Statistical theory of communication by Lee, Y.W. Reviewed by K. Wajs.
Przegl elektrotechn 38 no.3:123-124, Apr '62.

WAJS, Karol, mgr., inż.

Basic notions of the signal theory. Przegl elektrotechn.
38 no.4:143-148 Ap '62.

WAJS, Karol, mgr inż.

Courses of self excitation of shunt generators.
Przegl elektrotechn 38 no.9:374-378 S '62.

1. Instytut Elektrotechniki, Warszawa.

WAJS, K.

"Analysis of nonlinear systems" by H.I.Cunningham. Reviewed by
K.Wajs. Przegl elektrotechn 39 no.1:38-39 Ja '63.

WAJS, K.

"A methodology for systems engineering" by A.D.Hall. Reviewed
by K. Wajs. Przegl elektrotechn 39 no.11:446-447 N '63.

WAJS, K.

"Measurement: definitions and theories," edited by C.W. Churchman, Ph. Ratoosh. Reviewed by K. Wajs. Przegl elektrotechn 40 no.1:62-63 Ja'64.

WAJS, Karol

Archangielski's driving system. Przegl. elektrotechn 40 no.6:
274-279 Jo '64

1. Editor, "Przegląd Elektrotechniczny", Warsaw.

WJC, Karol, mgr inż.

Control systems of equal value. Inst elektrotech prace 11
no.33:21-42 '63

Biuro Dokumentacji i Informacji Naukowej, Instytut
Elektrotechniki, Warszawa.

WAJS, K.; ZEYDLER-ZBOROWSKI, Jan, mgr ins.; LADZINSKI, Radosław, doc. dr

Review of technical publications. Przegl elektrotechn 40 no.12:
517-518 D '64.

1. 24353-65 EWT(d)/EWP(v)/EWP(z)/EWP(h)/EWP(l) / Pf-4

ACCESSION NR: AP5001175

P/0034/64/000/012/0530/0532

AUTHOR: Wajs, K. (Doctor)

TITLE: Determination of time constants from time characteristics

SOURCE: Pomiar, automatyka, kontrola, no. 12, 1964, 530-532

TOPIC TAGS: automation, automatic control system, control system parameter, time constant, proportional element, integrating element, differentiating element, control system performance

ABSTRACT: This paper presents a method for determining the numerical values of the coefficients which appear in the operator functions of proportional, integrating and differentiating elements of control systems. The method is based on the integral values of the weighted criteria of performance quality which can be determined when the time characteristic (defined as the response to a unit step function) of the given element is known. The time characteristic is a source of information on such elements and, since it is readily determined, many attempts are made to find methods for determining the values of such coefficients - which play the part of time constants - from the shape of the time characteristic. Usually, these methods are time-consuming. The method developed in the present paper is

Card 1/3

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ACCESSION NR: AP5001175

simpler, fully rigorous, and based on the various weighted integral criteria of performance quality of a control system. The weighted integral criterion of performance quality is assumed in the form

$$\int_0^{\infty} t^n \cdot \mathcal{E}(t) dt \quad n = 0, 1, 2, 3, \dots$$

where $\mathcal{E}(t)$ is the difference between the steady-state output of the element and the instantaneous value of the output. The evaluation of this integral is a simple matter when the time characteristic is available. Each of the above integrals, corresponding to different n , can be expressed as a combination - usually a simple one - of the various time constants. The method is developed for proportional, integrating and differentiating elements. The values of the integral criteria for $n = 0, 1, 2$ and 3 weighted for these elements, expressed in terms of the time constants which appear in the operator transfer function of the element, are tabulated. The method is particularly convenient for proportional elements but can still be used with advantage for the other two types of elements. However, the formulas obtained become complicated as n increases, and for elements corresponding to n greater than 4, the method becomes impractical. Orig. art. has: 16 formulas, 1 figure and 3 tables.

Card 2/3

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ACCESSION NR: AP5001175

ASSOCIATION: Instytut elektrotechniki (Electrical engineering institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: IR, MA

NO REF SOV: 000

OTHER: 000

Cord 3/3

BIALKIEWICZ, Zbigniew, mgr inż.; SCISLONKI, Włodzimierz, prof, dr; BIERNACKI,
Tomasz; WAJS, K.

Review of technical publications. Przegl elektrotechn 41 no.2:
73-75 F '65.

WAJS, K.

Reviews of technical books. Przegl elektrotechn 41 no.4:153-
154 Ap '65.

KONORSKI, Boleslaw, prof. dr inz.; WAJS, K.

Publications on engineering. Przegl elektrotechn 41 no.3:105-
108 Mr '65.

WAJS, K.

Development of the wage policy in the machine manufacturing industry in Poland.
p.307.

MECHANIK (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich) Warszawa
Vol. 28, no. 8, Aug. 1955

So. East European Accessions List Vol. 5, No. 9 September 1956

GRABOWSKI, Aleksander; WAJS, Symcha .

Laboratory procedures for making working models by multiplication method. Czas. stomat. 18 no.10:1231-1235 0 '65.

1. Z Kliniki Protetyki Stomatologicznej AM w Warszawie
(Kierownik: prof. dr. J. Galasińska-Landsbergerowa).

WAJS, Stanislaw

On economy and management in fuels and power production. Wlad
naft 8 no.6:121-123 Je '62.

1. Posel na Sejm, Warszawa.

WAS, Z.

The Polish textile machinery industry. p. 220.

PRZEGLAD MECHANICZNY. (Stowarzyszenie Inzynierow i Technikow Mechanikow
Polskich) Warszawa. Poland. Vol. 17, no. 5, May 1958.

Monthly List of East European Accessions (MEAL) LC, Vol. 9, No. 2, Feb. 1959.

Uncla.

WAJS, Z.

Current factors influencing the construction of textile machinery, p.333.

PRZEGLAD WLOKIENNICZY. (Stowary szonie Inzynierow i Technikow Przemyslu Wlokienniczego) Loda, Poland, Vol. 13, No. 7, July 1959.

Monthly List of East European Accessions (ZEAI) LC, Vol. 9, No. 2, Feb. 1959.

Uncl.

WAJS, Zdzislaw, mgr inz.

Lodz Branch of the Association of Polish Mechanical Engineers and Technicians. Przegl mech 22 no.7/8:250-251 10-25 Ap '63.

1. Chief designer, Association of the Textile Machine Industry, Lodz, and Chairman, Association of Polish Mechanical Engineers and Technicians, Lodz Branch.

MOYCHO, W.; GUBANSKI, M.; FOMADIS, B.; LEMANSKA, M.; WAJSBARD, E.

The occurrence of tobacco mosaic virus in tomatoes in Lodz and its
neighborhood. Postepy nauk roln 7 no.1:79-82 Ja/F '60. (EEAI 9:10)
(Poland--Tomatoes)
(Mosaic disease)
(Viruses)

KICZAK, Janina; SIEBASTYANSKI, Tadeusz; SAGAN, Zygmunt; WAJSKOL, Adela

Acquired hemolytic anemia in a patient with malignant granuloma.
Polski tygod. lek. 15 no.46:1772-1776 14 H '60.

1. Z II Kliniki Chorob Wewnętrznych P.A.M. w Szczecinie; kierownik:
prof. dr Edward Gorzkowski.

(HODGKIN'S DISEASE compl) (ANEMIA HEMOLYTIC compl.)

WAJSKOL, Aron (Szczecin, al. Powstancow 72 II Kl. Chir. Pom. Ak. Med.)

Body potassium metabolism & its importance in the surgical clinic.
Polski tygod. lek. 14 no.10:446-448 9 Mar 59.

1. (Z II Kliniki Chirurgicznej P.A.M. w Szczecinie; kierownik: doc.
dr W. R. Heftman).

(POTASSIUM, metab.
disord., significance in surg. (Pol))